

# Dan He (Denise) Xu

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xddenise.github.io/Portfolio

## Education

**University of British Columbia - Bachelor of Science, Computer Science Major**

**SEP 2017 – DEC 2022**

- Major GPA: 86%

## Work Experiences

**Coursera, Remote**

**JAN – APR 2022**

*Software Engineer Intern (Front End)*

- Integrated Turnitin plagiarism detection checkbox with React and TypeScript in three different user views with GraphQL and Apollo Client, which is currently used by 50k+ students for plagiarism deterrence
- Led and completed frontend development for a new project to create an internal dashboard with Retool, which automates error-prone manual steps for agents; investigated frontend implementation feasibility, scoped out product requirements, presented UI design options for team to review, and led dogfooding session with users
- Created technical design and dogfooding documents for external facing features; communicated with stakeholders about rollouts; proactively followed up with feature launches and wrote launch emails for two projects

**Text IQ (a Relativity company), Remote**

**MAY – DEC 2021**

*Software Engineer Intern*

- Optimized application Docker image size by pinpointing and eliminating unnecessary space usage which reduced image size by 45% and saved around 8GB of disk space; reduced image build time in CI/CD pipeline by 63% by rearranging layers, minimizing build context, and leveraging Docker cache
- Revamped dependency management for 30 modules with Gradle by reorganizing dependencies and adding a plugin for detecting incorrect dependency configuration, which increased code maintainability
- Upgraded 2000 unit tests from JUnit 4 to 5 by replacing old annotations and features with new ones
- Updated 12 images to run as non-root user for migrating from Docker swarm to Kubernetes as part of company integration with Relativity by modifying Dockerfiles and Ansible deployment scripts

**Copperleaf Technologies, Vancouver**

**JAN – DEC 2020**

*Software Developer Intern (Jan-Aug) & Part-time Software Developer (Sep-Dec)*

- Completed full stack feature implementations, bug fixes, database migrations and unit tests with Typescript, Angular, C#, and PostgreSQL, finishing around 40% of the application UI that was delivered and showcased on the company's annual summit with over 200 stakeholders in the summer of 2020
- Redesigned the structure of automated UI test suit independently using Page Object Pattern with Selenium in C#, which was included in the CI/CD pipeline and reduced time to identify bugs for developers and product owner
- Created infrastructure for automated API test suite that runs nightly with Jenkins to ensure the stability of the APIs

## Technical Projects

**UBC Tantan** *React, Redux, TypeScript, Node, Express, MongoDB, Mongoose*

**MAY – AUG 2020**

- Developed a social networking web application in a team, which allows users to post, add friends, and group chat
- Implemented 70% of all the RESTful APIs; designed database schema and Mongoose model interfaces

**Shift Scheduler** *Java*

**MAY – JUN 2019**

- Developed a shift scheduling algorithm for Mr. Mustache Bubble Tea, which was approved by the manager to reduce scheduling time for two store locations by 95%

## Technical Skills

**Languages** Java, JavaScript, TypeScript, C#, C, C++, HTML, CSS

**Tools/Technologies** React, Redux, Angular, Node, Express, GraphQL, Docker, MongoDB, PostgreSQL, .NET Core, Selenium, Gradle, Git, Linux